



SYSTEM SOLUTIONS SCHOOLS

Indoor Air Quality that Makes the Grade

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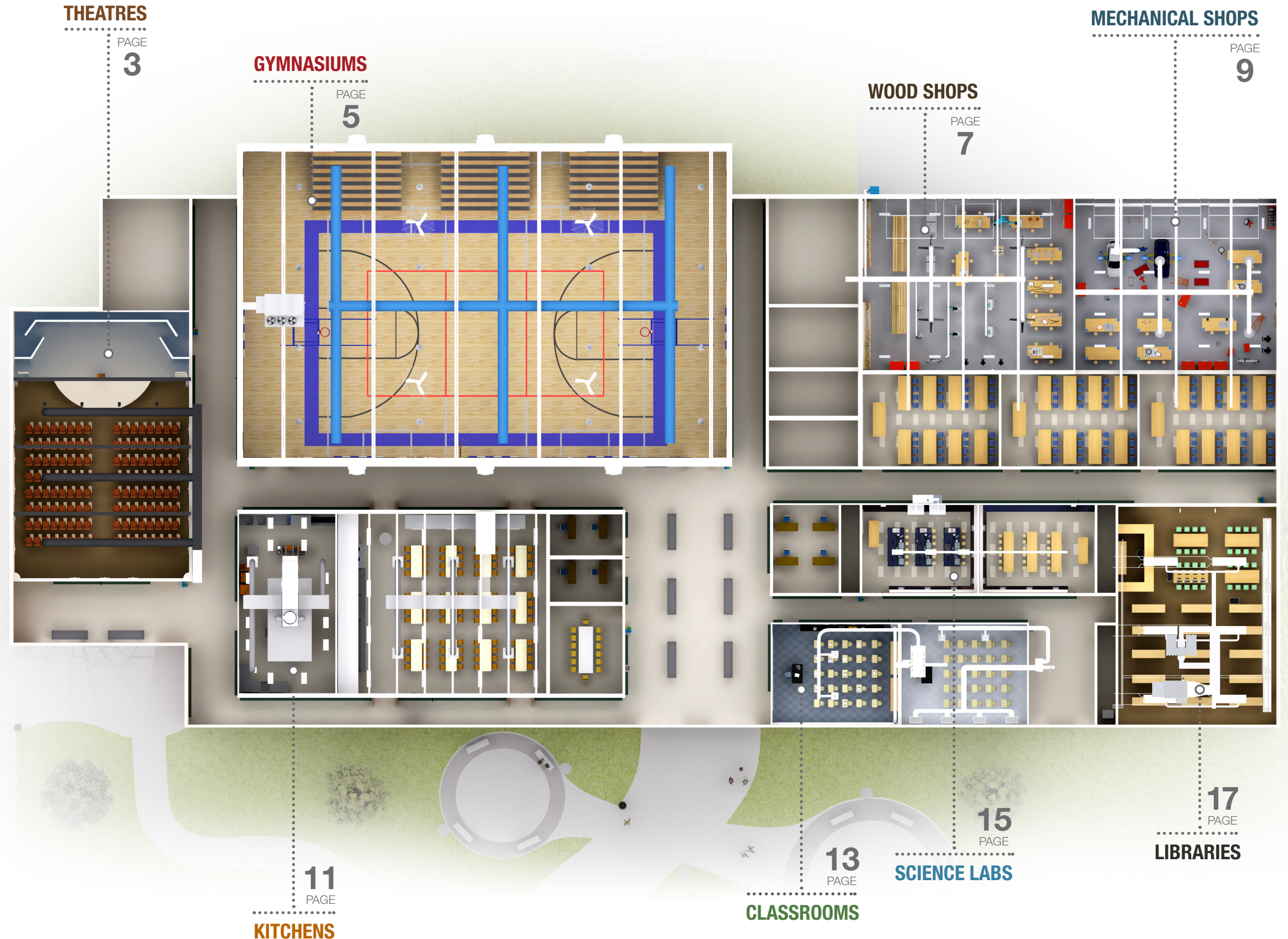
On average, approximately one in five people spends their day in school as a student, teacher or support staff. In the past, the focus of school construction was on simply meeting building codes and not so much on IAQ (Indoor Air Quality) and the comfort of the occupants.

The rapidly growing trend in school design today is a focus on comfort and providing a healthier environment for those who spend their days attending and working in them. E.H. Price recognizes that providing proper IAQ in these facilities translates to improved health, less strain on the environment and huge financial savings in annual operating costs.

We have the ability to offer every component of your HVAC system through an extensive line of Price manufactured products and a large network of vendors represented and sold through E.H. Price.

The following will illustrate examples of equipment that may be used in the many different environments found in your complex.

An experienced and knowledgeable E.H. Price representative can explore all the options that may be suitable for your specific application, and ensure that your system meets all your design and financial requirements.



THEATRES

Theatres are unique rooms with unique challenges. They may sit unoccupied for long periods of time, then instantly have several hundred occupants. We provide several products to help your system accommodate these changes.

The whisper quiet operation and superior air quality of the combined underfloor, wall and overhead diffusers makes displacement ventilation ideally suited for densely populated auditoriums. In addition, since only the occupied space is cooled, energy is not wasted cooling the significant lighting loads and large amount of space near the ceiling.

Featured Products:

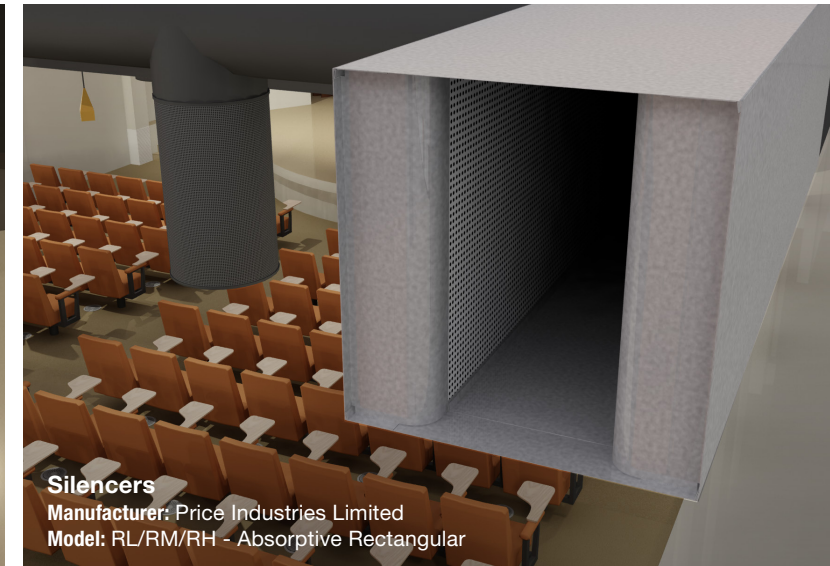
- Round Floor Displacement Diffusers
- Wall Mounted Displacement Diffusers
- Free Standing Displacement Diffusers
- Silencers

Featured Product Manufacturers:

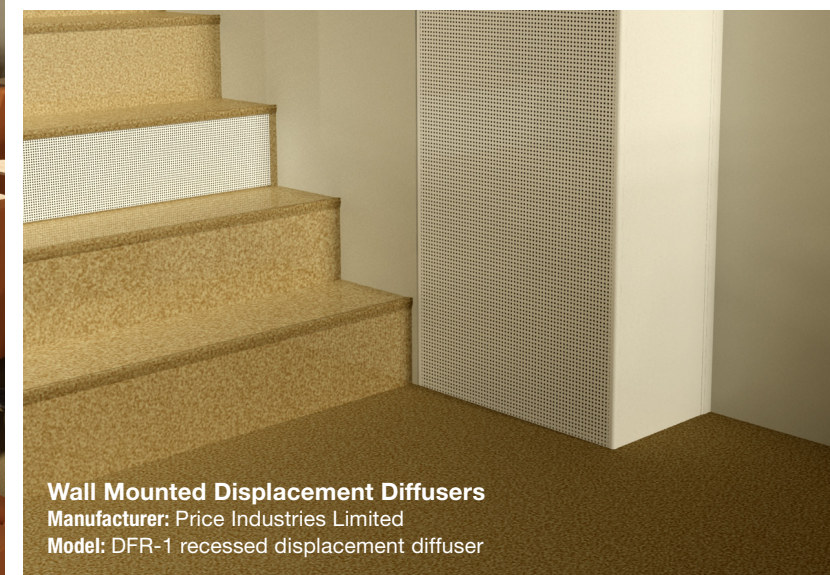
PRICE

Also available
Acoustic Panels and Enclosures

Manufacturer: Price Industries Limited
Model: QLP Acoustic Panel, QLPT Acoustic Panel Film Lined



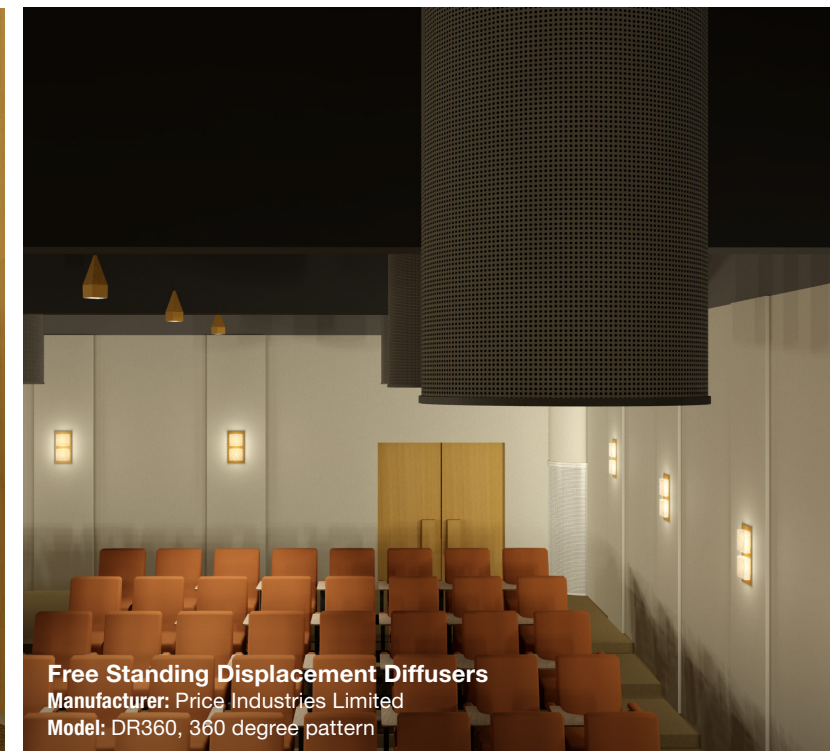
Silencers
Manufacturer: Price Industries Limited
Model: RL/RM/RH - Absorptive Rectangular



Wall Mounted Displacement Diffusers
Manufacturer: Price Industries Limited
Model: DFR-1 recessed displacement diffuser



Round Floor Displacement Diffuser
Manufacturer: Price Industries Limited
Model: RFDD horizontal flow



Free Standing Displacement Diffusers
Manufacturer: Price Industries Limited
Model: DR360, 360 degree pattern

GYMNASIUMS

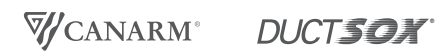
Gymnasiums and theatres are alike in that they both share concerns with constantly changing air flow. Gymnasiums must be able to adjust from a typical daily gym class of 30 people to a school function or assembly of 700 or more.

Students involved in high levels of physical activity, such as during a basketball game, to near sedentary spectators can provide a wide range of heating and cooling challenges. This requires a system that allows the total supply air cfm to be adjustable in order to accommodate each scenario.

Featured Products:

- Ceiling Fan with Wire Guard
- Rooftop Ventilator
- Fabric Duct Ventilation
- Return Grilles

Featured Product Manufacturers:



¹ Also available
Energy Recovery Ventilator (ERV)

- Manufacturer:** Greenheck
- Model:** Apex ERV with Heating & Cooling
- Manufacturer:** Price Industries Limited
- Model:** RegenCore High Effectiveness Energy Recovery Unit
- Manufacturer:** Price Industries Limited
- Model:** Custom ERV including Heat, Cool and Humidification



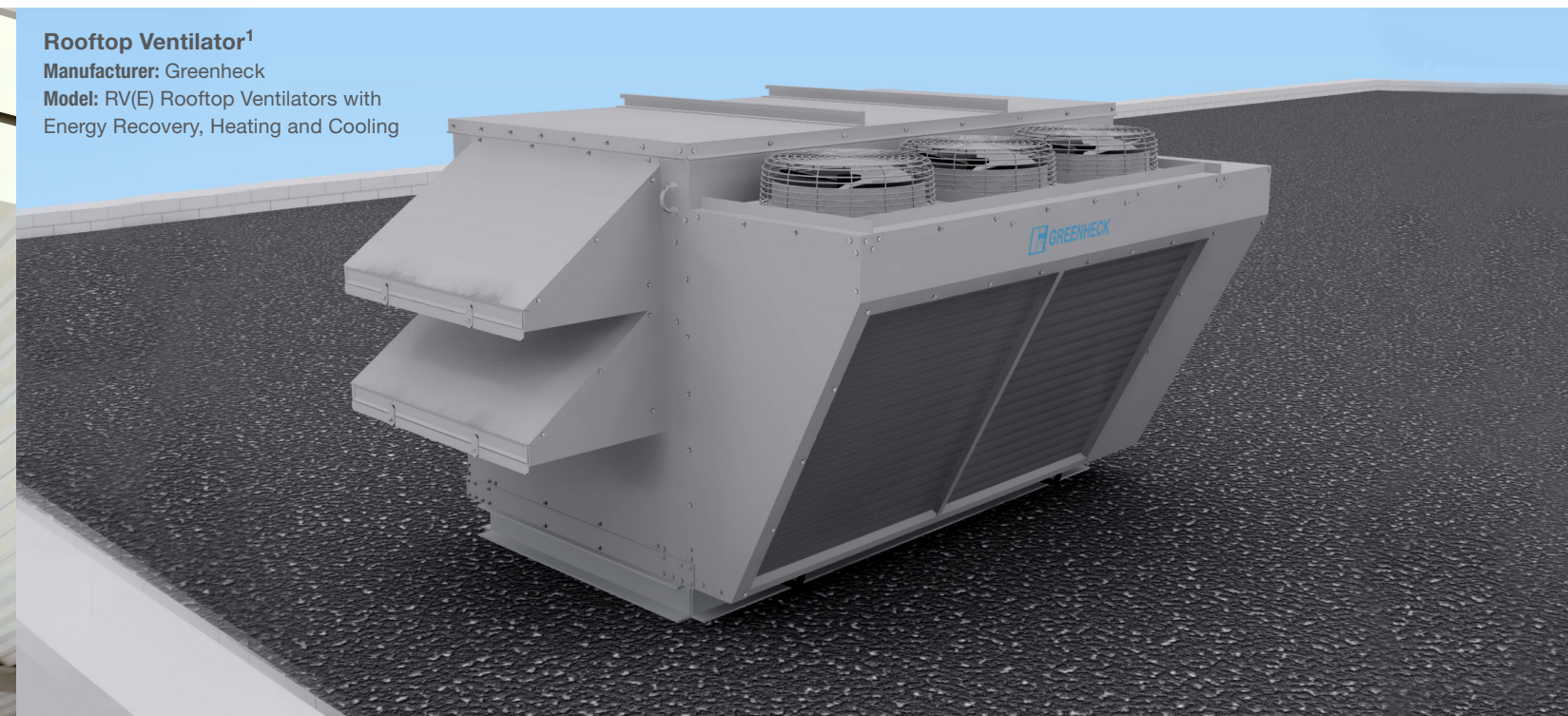
Heavy Duty Gym Return Grille
 Manufacturer: Price Industries Limited
 Model: 90 Series Gym Grille



Fabric Duct Ventilation
 Manufacturer: Ductsox



Ceiling Fan with Wire Guard
 Manufacturer: Canarm
 Model: CP56 Commercial Ceiling Fan
 Model: CP93-56KD Industrial Guard



Rooftop Ventilator¹
 Manufacturer: Greenheck
 Model: RV(E) Rooftop Ventilators with Energy Recovery, Heating and Cooling

WOOD SHOPS

All woods produce fine dust when worked. Its this airborne sawdust and sawdust accumulation that can cause potential respiratory and safety problems. Having an efficient system for extraction and collection of wood dust is important to the health of students and teachers.

A dust collector is a staple in every woodworking shop. They filter large chips and dust from a variety of woodworking machines. The Donaldson/Torit Unimaster dust collector is an economical and effective solution for a diverse range of dust problems.

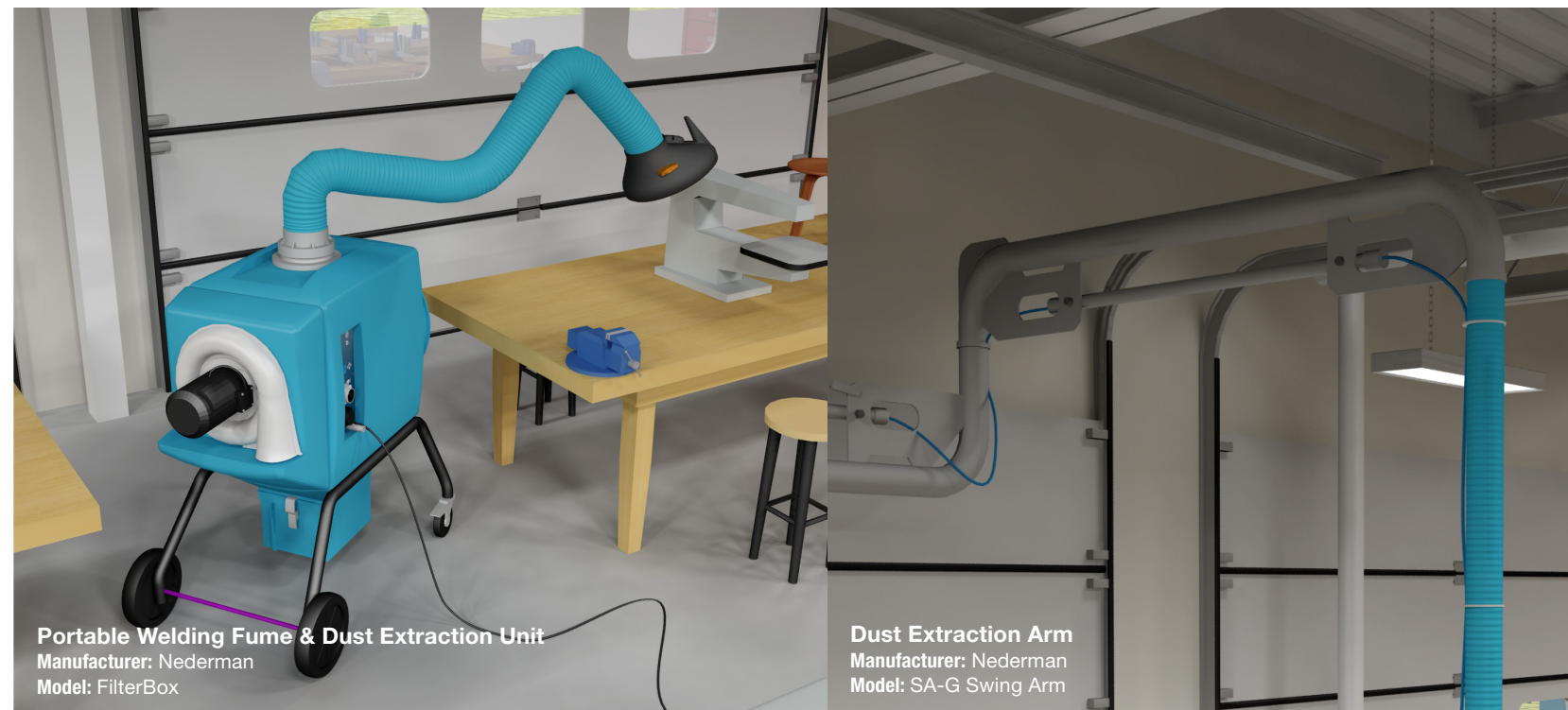
Nederman offers a variety of vacuum solutions for extracting and managing sawdust and other types of wood waste directly at the source. Extractors can be fitted directly to machines or to hand held tools.

All dust collection systems, including the later, are very effective at the removal of sawdust, as well as various industrial debris present in this type of environment.

Featured Products:

- Dust Collector
- Dust Extractor
- Supply Diffusers

Featured Product Manufacturers:



Portable Welding Fume & Dust Extraction Unit
 Manufacturer: Nederman
 Model: FilterBox

Dust Extraction Arm
 Manufacturer: Nederman
 Model: SA-G Swing Arm



Supply Diffuser
 Manufacturer: Price Industries Limited
 Model: RCD Round Cone Diffuser



Dust Collector
 Manufacturer: Donaldson
 Model: Unimaster

MECHANICAL SHOPS

Some common pollutants in a typical mechanical shop include vehicle exhaust and welding fumes, engine emissions, sanding and grinding dust, and oil spillage. To maintain a safe learning environment, these hazardous pollutants and fumes need to be efficiently moved out of the occupied zone and away from students and staff.

Air Curtains, installed over the bay doors create a "barrier" that keeps outside temperatures and contaminants from affecting the internal environment. Exhaust extraction hoses capture vehicle exhaust gases at the source preventing the ambient air to be laden with volatile organic compounds and fumes.

Wall or duct-mounted gas detectors for monitoring carbon monoxide (CO), nitrogen dioxide (NO2), oxygen (O2), methane (CH4), hydrogen (H2), hydrogen sulphide (H2S), and propane (C3H8). These are just a few choice solutions for maintaining a properly ventilated, sanitary and energy-efficient mechanical shop.

Featured Products:

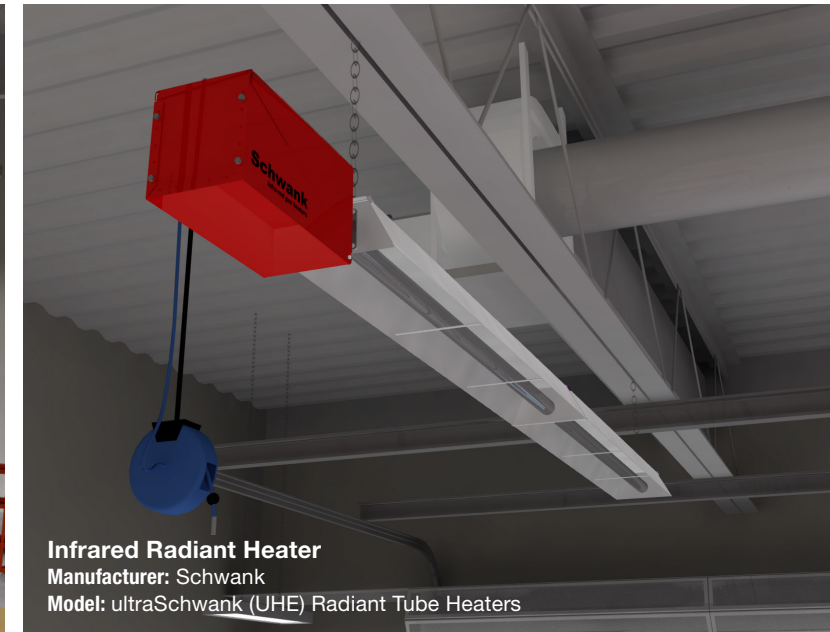
- Exhaust Extractor
- Radiant Heaters
- Air Curtains
- Gas Detection System

Featured Product Manufacturers:



Air Curtains
 Manufacturer: Biddle Climate Solutions
 Model: CA₂

Twin Exhaust Extractor
 Manufacturer: Nederman



Infrared Radiant Heater
 Manufacturer: Schwank
 Model: ultraSchwank (UHE) Radiant Tube Heaters



Centrifugal Fan
 Manufacturer: Greenheck
 Model: BISW Single Wide Blower



Wireless Gas Detection System
 Manufacturer: Honeywell Analytics
 Model: E³Point

KITCHENS

Supplying fresh, clean air to students and kitchen staff while removing air laden with contaminants is the main objective of a well designed and ventilated kitchen system.

Ovens, cook-tops and deep fryers require a much higher amount of cfm than usual. Filtered kitchen hoods and special kitchen exhaust fans are among the products E.H. Price Sales can offer to control these areas and make them as comfortable as possible to work in.

Featured Products:

- Kitchen Hood with Supply Plenum
- Supply Diffusers
- Rooftop Unit
- Exhaust Fans

Featured Product Manufacturers:



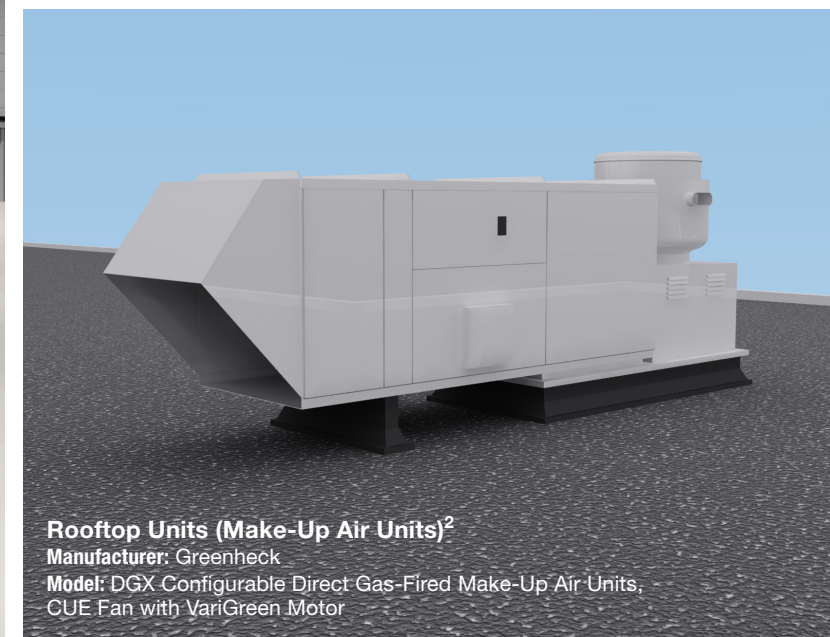
²Also available:
Make-Up Air Units

Manufacturer: Price Industries Limited
Model: AW-D Series Direct Fired Make-Up Air Units

Manufacturer: Carrier
Model: Gemini™ 38 Series Condensing Unit



Supply Diffuser
Manufacturer: Price Industries Limited
Model: PDF Perforated Ceiling Diffuser



Rooftop Units (Make-Up Air Units)²
Manufacturer: Greenheck
Model: DGX Configurable Direct Gas-Fired Make-Up Air Units, CUE Fan with VariGreen Motor



Supply Plenum
Manufacturer: Greenheck
Model: Air Curtain External Supply Plenum (ASP)



Kitchen Hood
Manufacturer: Greenheck
Model: Double (shown) or Single-Island (V-Bank) Canopy Hood. Optional Filter Bank

CLASSROOMS

Indoor Environmental Quality (IEQ) has been proven by several independent studies that an improved air quality can increase productivity and decrease the transmission of airborne illnesses.

Classrooms form a large portion of most buildings by square footage and are where students and teachers spend most of their time. The indoor air quality, thermal comfort, and low noise levels of displacement ventilation make it ideal for this application.

Featured Products:

- Displacement Diffusers
- Air Handling Units
- Terminal Units
- Return Grilles

Featured Product Manufacturers:

Carrier® **PRICE®**

³Also available: Air Handling Units

Manufacturer: Greenheck

Model: RV(E) Rooftop Ventilators with Energy Recovery, Heating and Cooling

Manufacturer: Price

Model: AW-I Series Indirect Fired Make-Up Air Units

Additional technologies available:

Manufacturer: Price

Type: Fan Coils, Radiant Panels, Active Beams

Manufacturer: Carrier

Type: Fan Coils, Heat Pumps, Induction Chilled Beams

Manufacturer: Magic Aire

Type: Unit Ventilators

Manufacturers: Florida Heat Pumps (FHP), Addison

Type: Water to Water Heat Pumps

Manufacturer: Vulcan

Type: Wall Fin, Panel Radiators



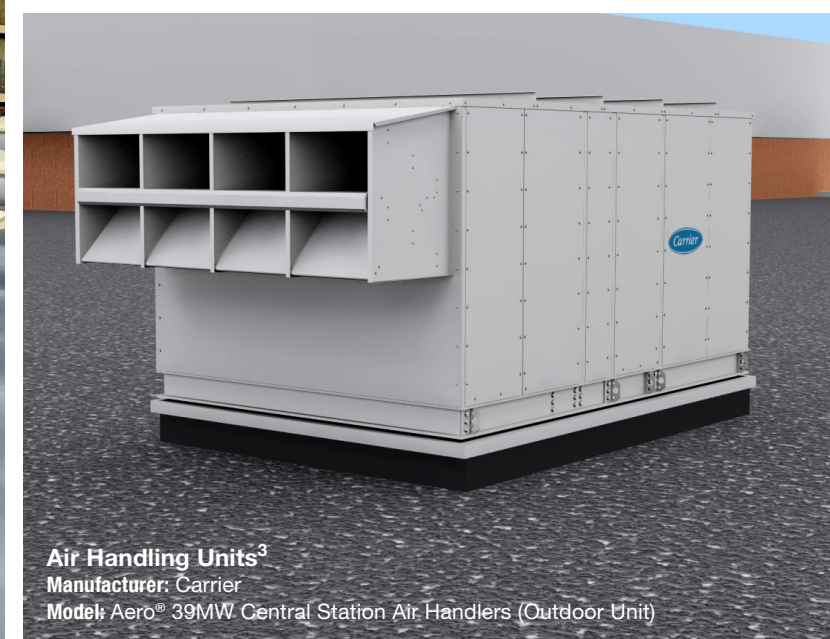
Terminal Units
Manufacturer: Price Industries Limited
Model: SDV Single Duct



Wall Mounted Displacement Diffusers
Manufacturer: Price Industries Limited
Model: DR90 90 degree pattern



Return Grilles
Manufacturer: Price Industries Limited
Model: TLRD Thin Line Return Dissipaters



Air Handling Units³
Manufacturer: Carrier
Model: Aero® 39MW Central Station Air Handlers (Outdoor Unit)



Linear Enclosure Displacement Diffusers
Manufacturer: Price Industries Limited
Model: DLE-H with heat

SCIENCE LABS

Labs require extra care when planning an HVAC system. They typically contain fume hoods that change the requirements on supply and exhaust air.

Ideally these rooms should be negative pressure to assist in the containment of any chemicals being worked on within the room. This means more air being exhausted than what is being supplied to the room. The supply air must also be introduced at a very low cfm so as not to interfere with fume hood performance.

Exhausting a lab requires special treatment as well. Normally some sort of high plumed exhaust system is employed to ensure that the lab air is diluted and then dispersed as far away from the building as possible so as not to be entrained back into the supply air and introduce particulates back into the room they were just removed from.

Featured Products:

- Fume Hoods with Controller
- Venturi Valves
- Exhaust System
- Laboratory Ceiling Diffusers

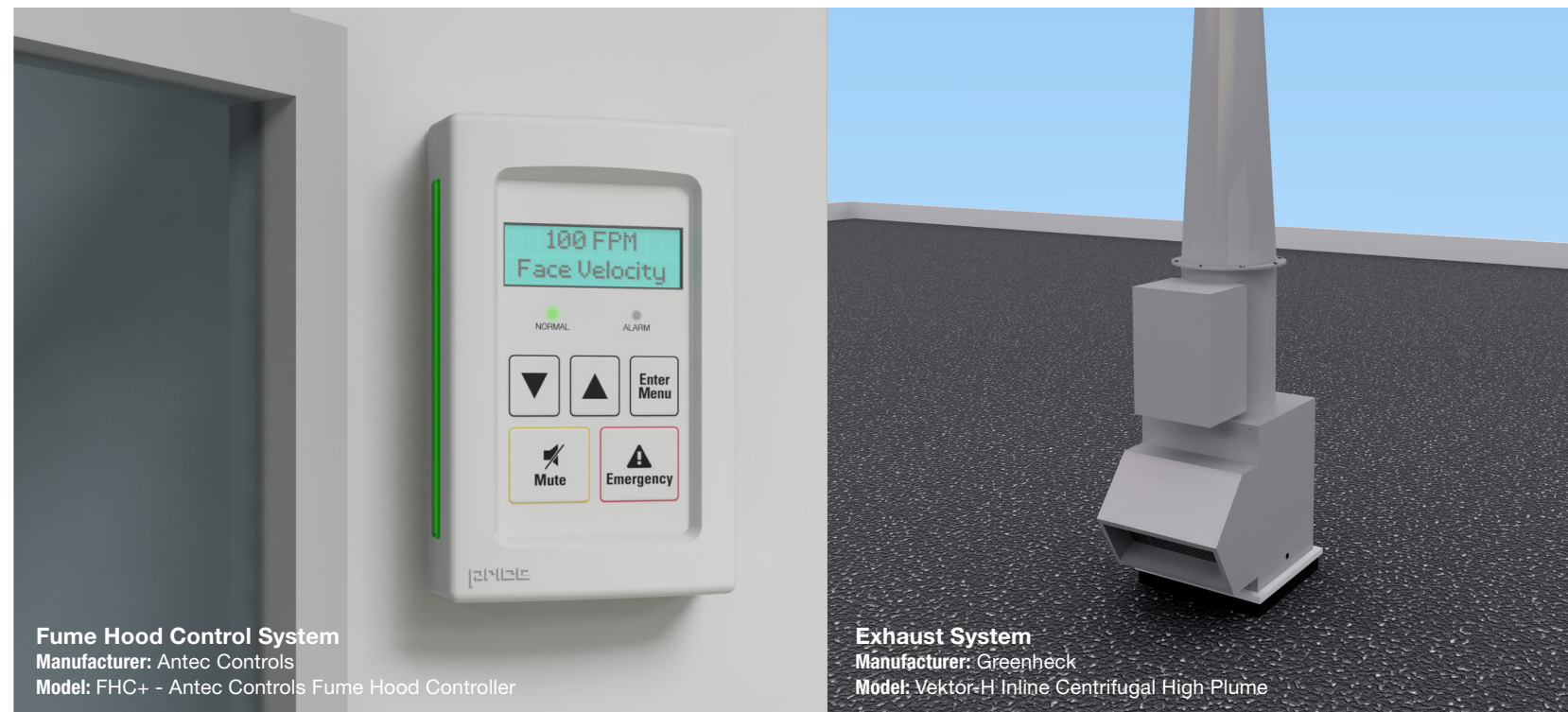
Featured Product Manufacturers:



Laboratory Diffuser
 Manufacturer: Price Industries Limited
 Model: RFD Radial Flow Diffuser



Fume Hoods
 Manufacturer: Price Industries Limited
 Model: HPH High Performance/Low Constant Volume



Fume Hood Control System
 Manufacturer: Antec Controls
 Model: FHC+ - Antec Controls Fume Hood Controller

Exhaust System
 Manufacturer: Greenheck
 Model: Vektor-H Inline Centrifugal High Plume

LIBRARIES

Hydronic heating and cooling systems do not have fan powered devices near the zone, which results in lower zone noise levels than traditional systems.

Hydronic systems effectively provide a high level of occupant comfort, indoor air quality, and energy efficiency. These hybrid systems strategically combine an air-side system, that is designed to meet the ventilation requirements for a space, while a hydronic (or water-side) system is used to balance the sensible heating and cooling loads. Radiant heating and cooling systems or active and passive beams are typical examples of hydronic product solutions.

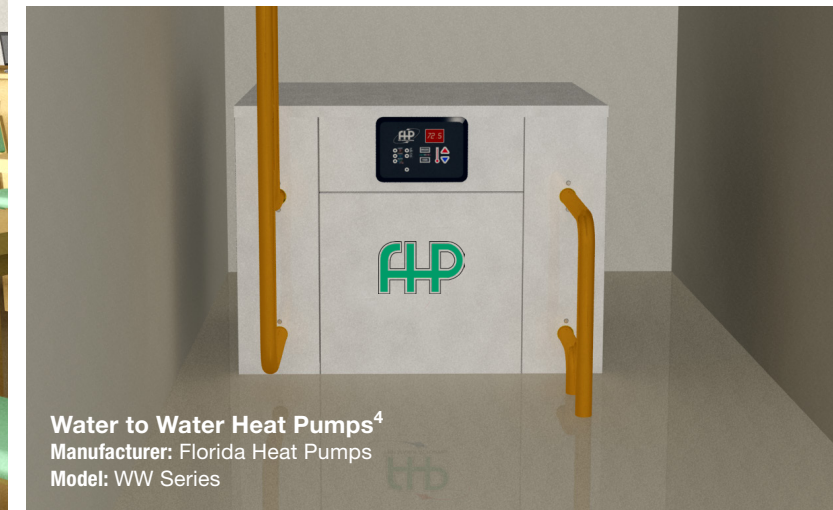
Featured Product Manufacturers:

PRICE   BOSCH





Radiant Panels
 Manufacturer: Price Industries Limited
 Model: RPM Modular Radiant Panel



Water to Water Heat Pumps⁴
 Manufacturer: Florida Heat Pumps
 Model: WW Series

⁴Also available:
Water to Water Heat Pumps

Manufacturer: Carrier
Model: 50PSW

Manufacturer: Addison
Model: WW Series

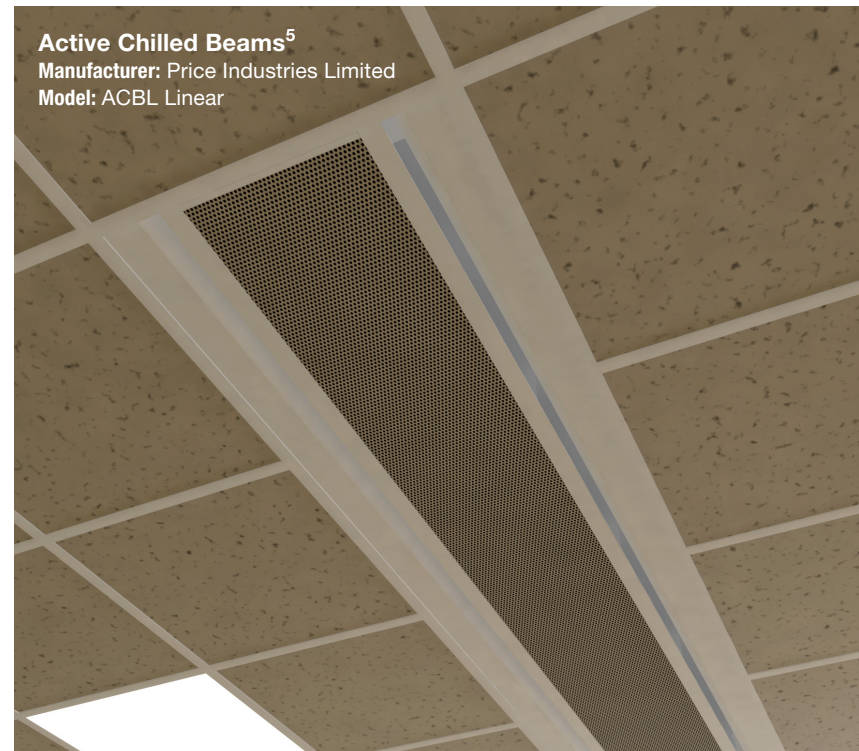
⁵Also available:
Chilled Beams

Manufacturer: Carrier
Model: Induction Chilled Beams

⁶Also available:
Energy Recovery Ventilator

Manufacturer: Nu-Air
Model: NU2540 ERV

Active Chilled Beams⁵
 Manufacturer: Price Industries Limited
 Model: ACBL Linear



Air to Air Energy Recovery⁶
 Manufacturer: SolutionAir
 High Effectiveness Energy Recovery: RegenCore with integrated heating and cooling



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